

ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D4055-041	FUEL TANK ASSEMBLY
2	1	D3997-1	PLACARD "FUEL JET A1"
3	2	D3997-5	PLACARD "AUX FUEL DRAIN"
4	1	D3997-11	PLACARD "LOADING"
5	1	D3997-17	PLACARD "STOWAGE"
6	1	D3997-29	PLACARD "WARNING"
7	1	D3997-43	PLACARD "EARTH"
8	1	D3999-7	CORNER
9	1	D3999-9	ANGLE
10	1	D3999-11	EARTH TAB
11	1	D3999-041	BAFFLE ASSEMBLY, AFT
12	1	D3999-043	BAFFLE ASSEMBLY, FWD
13	1	D4000-1	FUEL SUPPLY FITTING
14	1	D4000-5	FUEL TANK VENT FITTING
15	3	D4000-9	GROMMET
16	1	D4000-041	AFT FUEL SUMP DRAIN ASSEMBLY
17	1	D4000-043	FORWARD FUEL SUMP DRAIN ASSEMBLY
18	1	D4000-045	FUEL PICK UP AND STRAINER ASSEMBLY
19	1	D4001-1	FITTING
20	1	D4008-11	TANK HINGE HALF
21	1	D4008-041	FUEL FILLER SPLASH GUARD ASSEMBLY
22	1	D4023-3	FUEL CAP
23	1	D4025-1	FUEL SENDER
24	1	D4055-1	TANK TOP
25	1	D4055-3	TANK AFT END
26	1	D4055-5	TANK UPPER CUT OUT
27	1	D4055-7	TANK FORWARD END
28	1	D4055-9	TANK BACK
29	1	D4055-11	TANK FRONT AND BOTTOM
30	3	D4057-1	RETAINING RING
31	1	D4404-1	CUSHION
32	1	D4404-5	CUSHION, FWD
33	1	D4404-7	CUSHION, UPPER SIDE
34	1	D4404-9	CUSHION, LOWER SIDE
35	5	AN3H5A	BOLT
36	5	NAS1149D0363J	WASHER

NOTES:

- 1) MATERIAL: N/A
 2) FINISH: TOUCH UP CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 POWDER COAT "ANSI 61 GREY" (4.3.5.15) PER DART QSI 005 4.3 C

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: IDENTIFY WITH DART P/N "D350-794-041" USING D2729-1 RED DECAL

7) WEIGHT: 27.57 lbs

8) WELD PER DART QSI 004

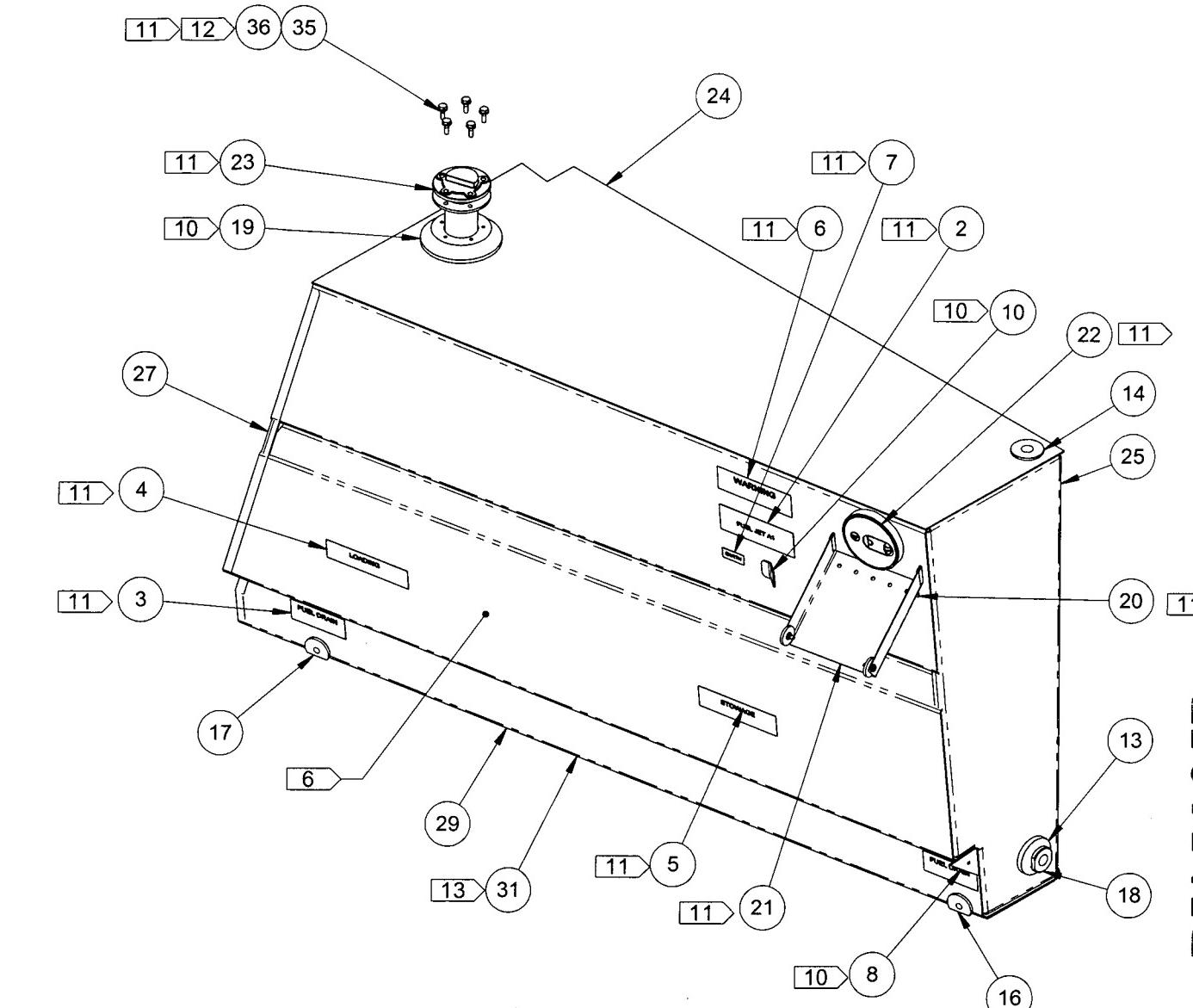
9) CAP ALL TANK ACCESS POINTS AND PRESSURIZE TANK PER QSI 038 4.3. VERIFY NO LEAKS C

10) MASK PRIOR TO POWDER COAT

11) INSTALL AFTER POWDER COAT

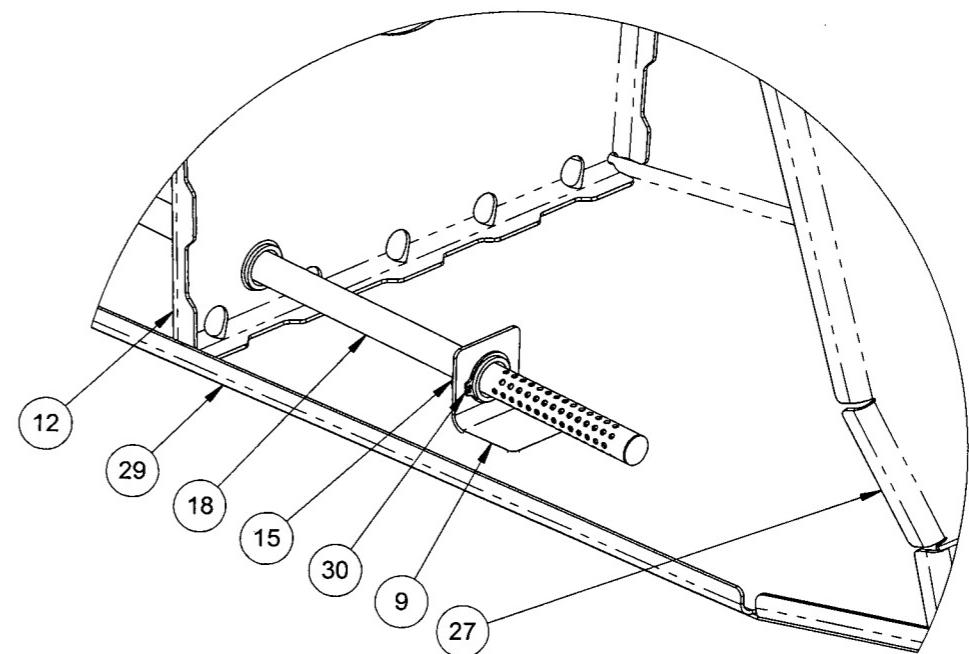
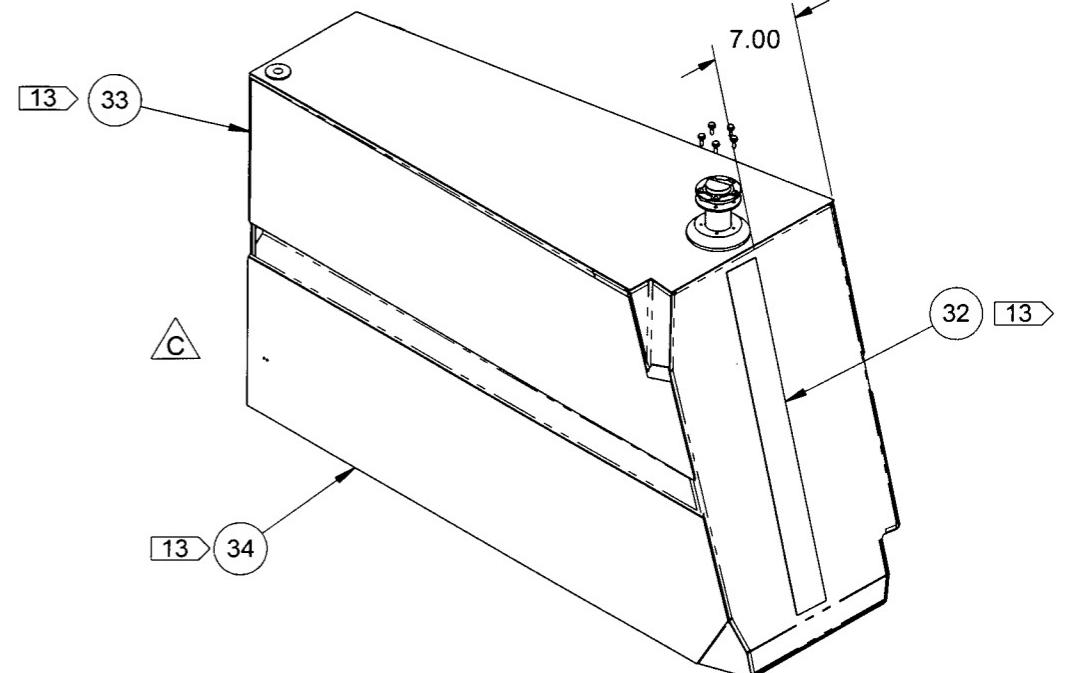
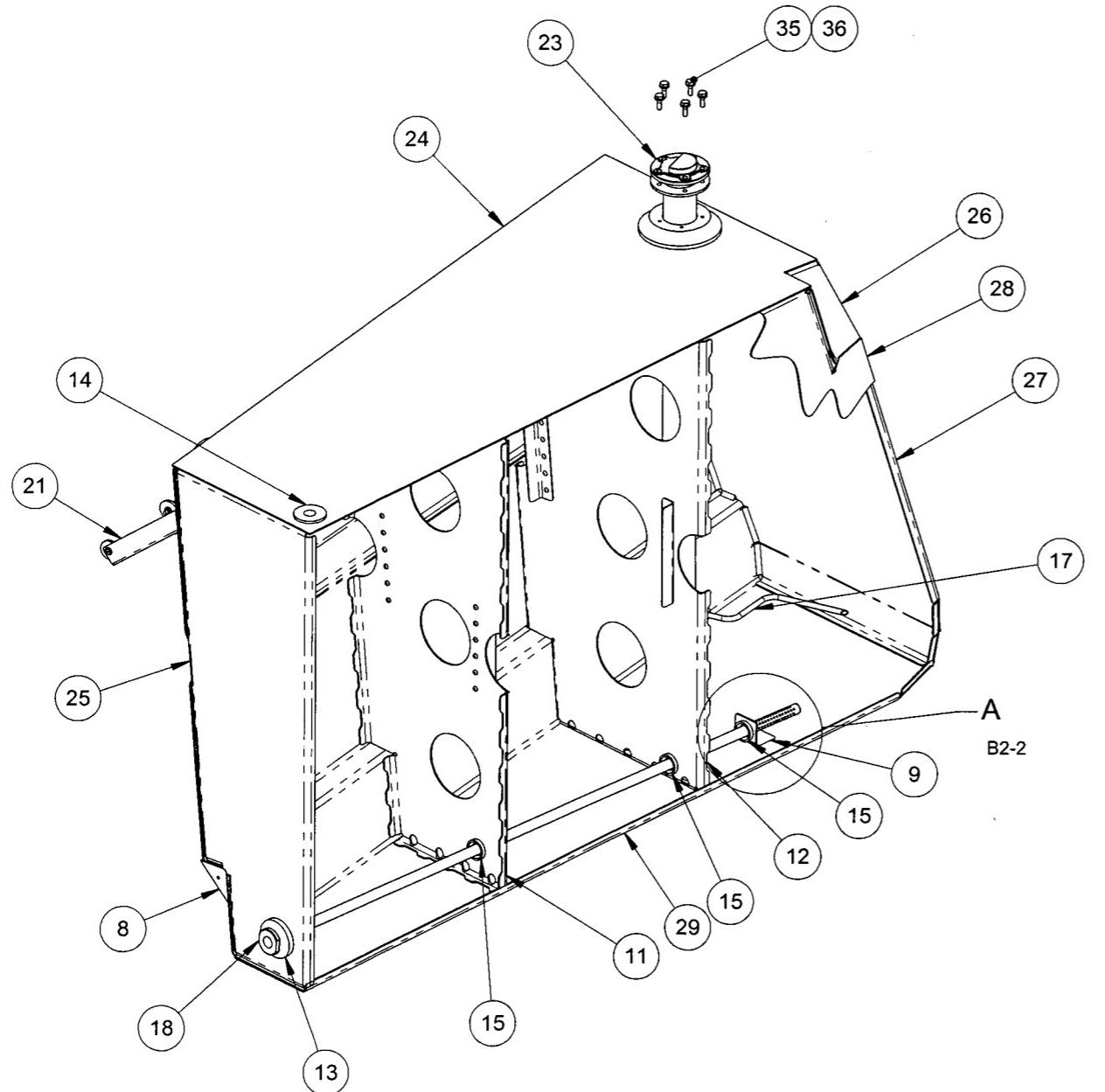
12) LOCKWIRE BOLTS AFTER INSTALLATION PER AC 43.13 OR MS33540

13) INSTALL CUSHIONS AFTER POWDER COAT USING CONTACT CEMENT. TRIM TO FIT IF REQUIRED.

D4055-041 FUEL TANK ASSEMBLY

C	ADDED ITEMS 32, 33, 34, ZONE B8-1. ADDED NOTE 8, ZONE A8-1. CHANGED POWDER COAT FROM "GREY SANTEX" TO "ANSI 61 GREY", ZN A8-1. DELETED INSTRUCTIONS FOR SLOSHING COMPOUND, ZN A8-3.	DC	12.01.20
B	MOVE CAP POSITION AND CHANGE CAP DESIGN, CHANGE FINISH REQUIREMENTS FOR ALL PARTS, ADD CUSHION UNDER TANK, CORRECT PART NUMBERS	HS	11.05.12
A	NEW ISSUE	HS	10.04.16
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>AB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>DC</i>		
CHECKED	<i>AB</i>		
MFG. APPR.	<i>EZ</i>		
APPROVED	<i>AB</i>		
DE APPR.	<i>AB</i>		
DATE	12.01.20		
DRAWING NO. D4055		REV. C	SHEET 1 OF 15
TITLE TANK		SCALE	NTS
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RELEASED 2012-02-27



DETAIL A
ROTATED FOR CLARITY
SCALE 2X

RELEASED
2012-02-27

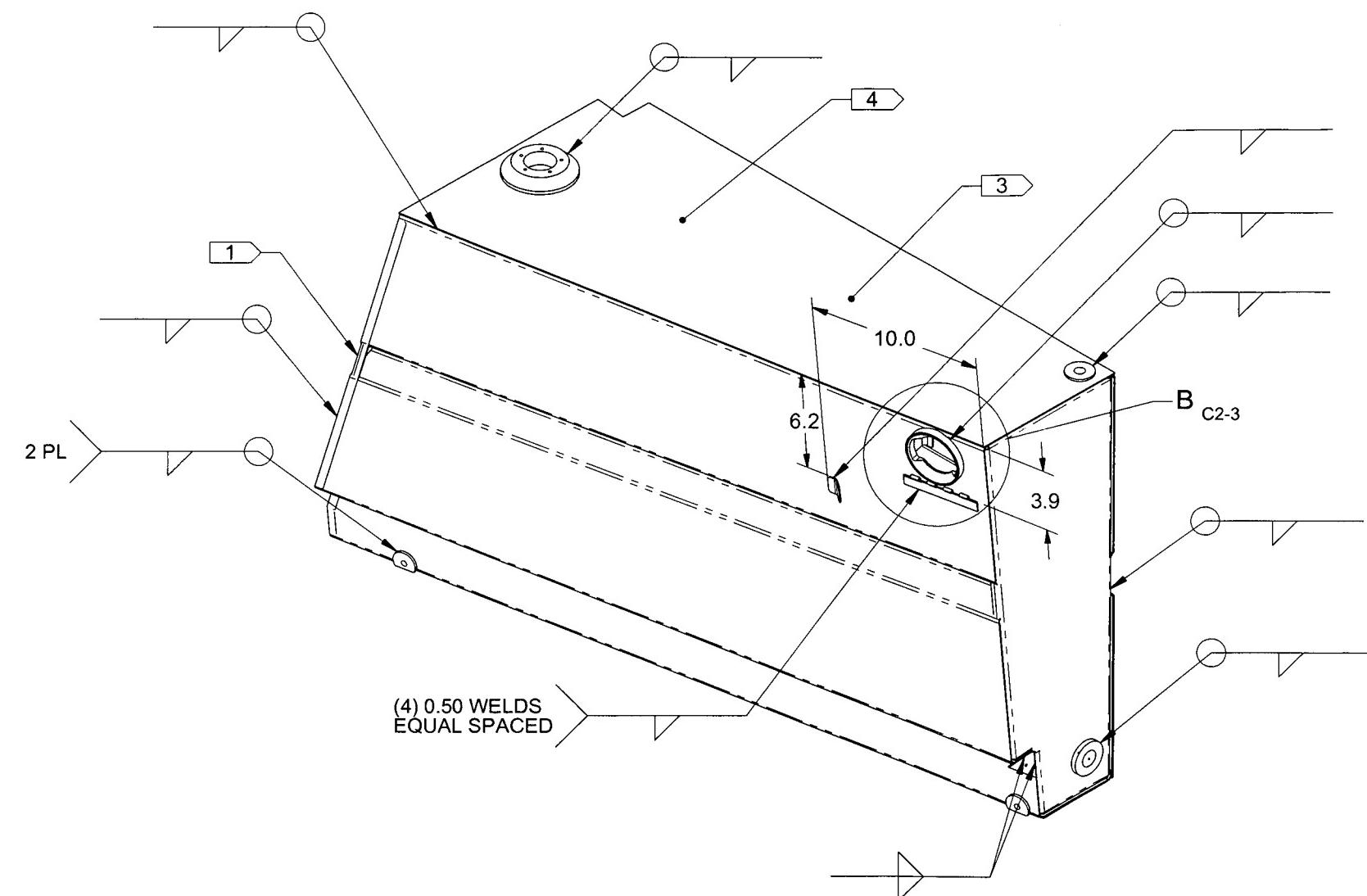

D4055-041 FUEL TANK ASSEMBLY
D4055-9 TANK BACK REMOVED
TO SHOW INTERIOR DETAIL

DESIGN	<u>BS</u>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<u>DC</u>		
CHECKED	<u>BS</u>	DRAWING NO.	REV. C
MFG. APPR.	<u>E</u>	D4055	SHEET 2 OF 15
APPROVED	<u>MP</u>	TITLE	SCALE
DE APPR.	<u> </u>	TANK	NTS
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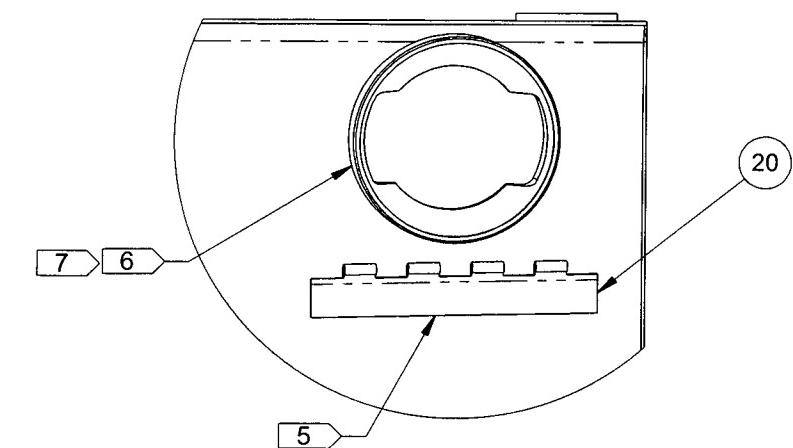


D4055-041 FUEL TANK ASSEMBLY
WELDING DETAIL

NOTES:

- 1) TRIM FLANGES AS REQUIRED TO FIT ASSEMBLY
- 2) FINAL CHECK BEFORE LAST PANEL INSTALLED
 - END OF FUEL PICK UP TUBE IS 0.60 OFF THE TANK FLOOR AND 1.96 FROM SIDE WALL
 - FWD AND AFT DRAIN TUBES EXTEND TO CENTER OF TANK
 - ALL SWARF REMOVED
- 3) ACCEPTABLE TO DRILL 6 (TYP) $\phi 0.312$ HOLES IN TANK TOP TO WELD TOP TO AFT BAFFLE (1 HOLE PER BAFFLE TAB)
- 4) ACCEPTABLE TO DRILL 7 (TYP) $\phi 0.312$ HOLES IN TANK TOP TO WELD TOP TO FWD BAFFLE (1 HOLE PER BAFFLE TAB)
- 5) CENTER HINGE BELOW FUEL CAP FLANGE
- 6) POSITION FUEL CAP FLANGE AS SHOWN, ELONGATED HOLE APPROXIMATELY HORIZONTAL
- 7) POSITION FUEL CAP FLANGE SO THAT INNER FACE IS FLUSH WITH INSIDE OF TANK

C



DETAIL B
ROTATED FOR CLARITY
SCALE 2X

C4-3

RELEASED
R 2012-02-27
MP

DESIGN	<i>SP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	<i>DC</i>	
CHECKED	<i>SP</i>	
MFG. APPR.	<i>ND</i>	
APPROVED	<i>MP</i>	
DE APPR.	<i>SP</i>	
DATE	12.01.20	

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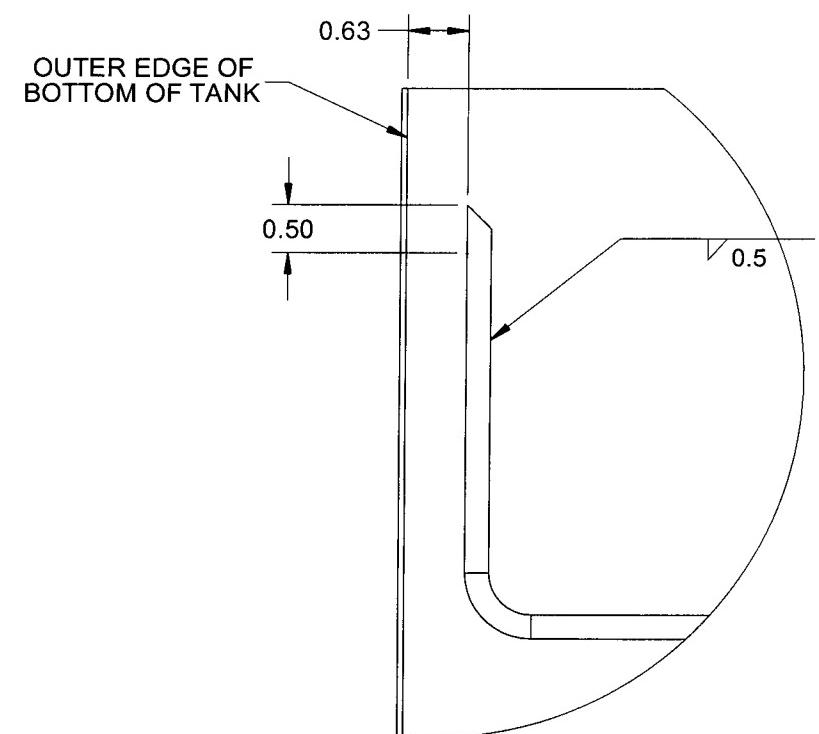
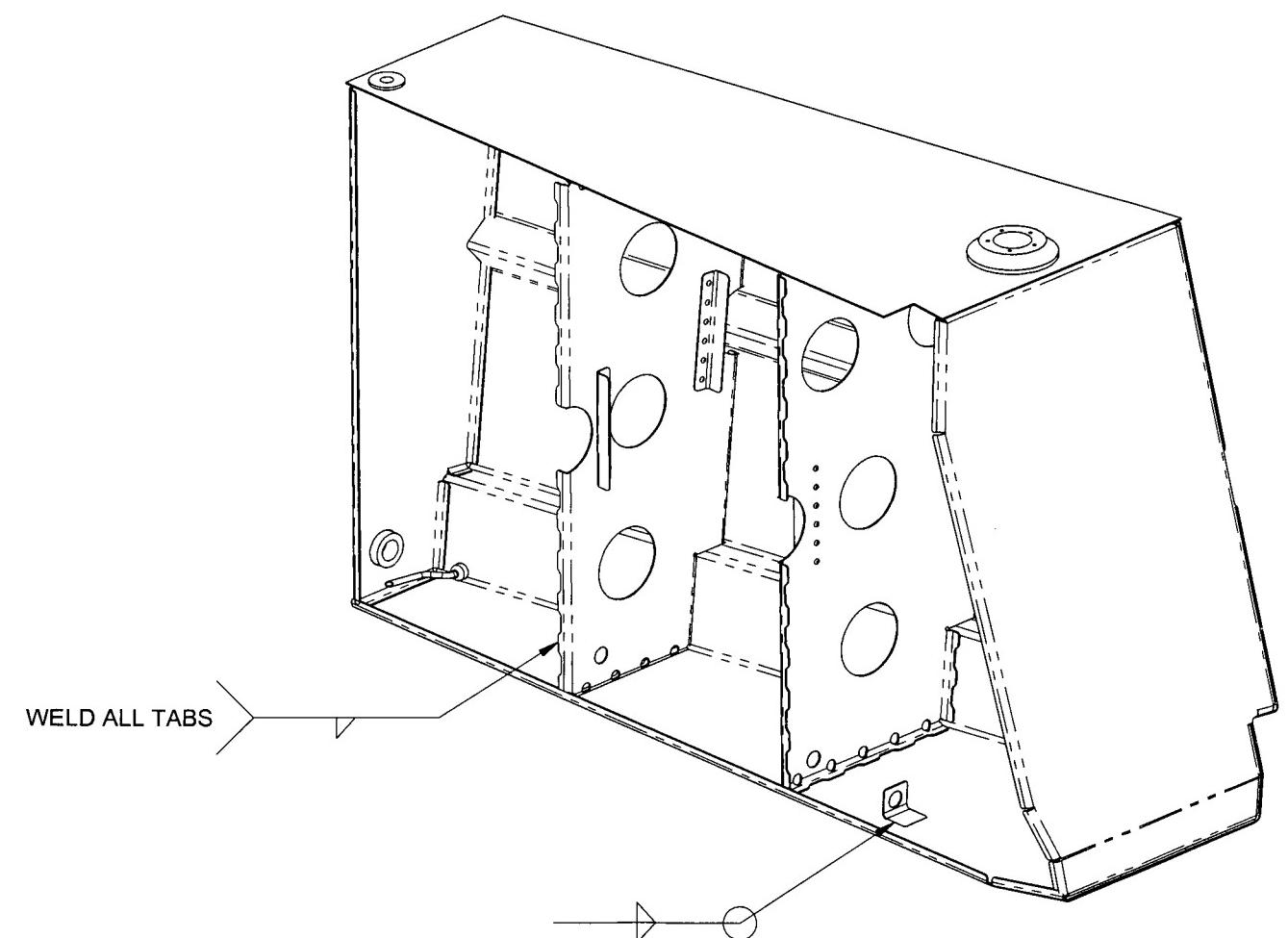
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DRAIN TUBE INSTALLATION - TYP
VIEWED FROM ABOVE
FWD END SHOWN, AFT END OPPOSITE

D4055-041 FUEL TANK ASSEMBLY
WELDING DETAIL

RELEASED
2012-02-27
M

DESIGN	<i>DC</i>	DART AEROSPACE LTD	
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>DC</i>	DRAWING NO.	
MFG. APPR.	<i>DC</i>	REV. C	
APPROVED	<i>DC</i>	D4055	
DE APPR.	<i>DC</i>	SHEET 4 OF 15	
DATE	12.01.20	TITLE	SCALE
		TANK	
		NTS	

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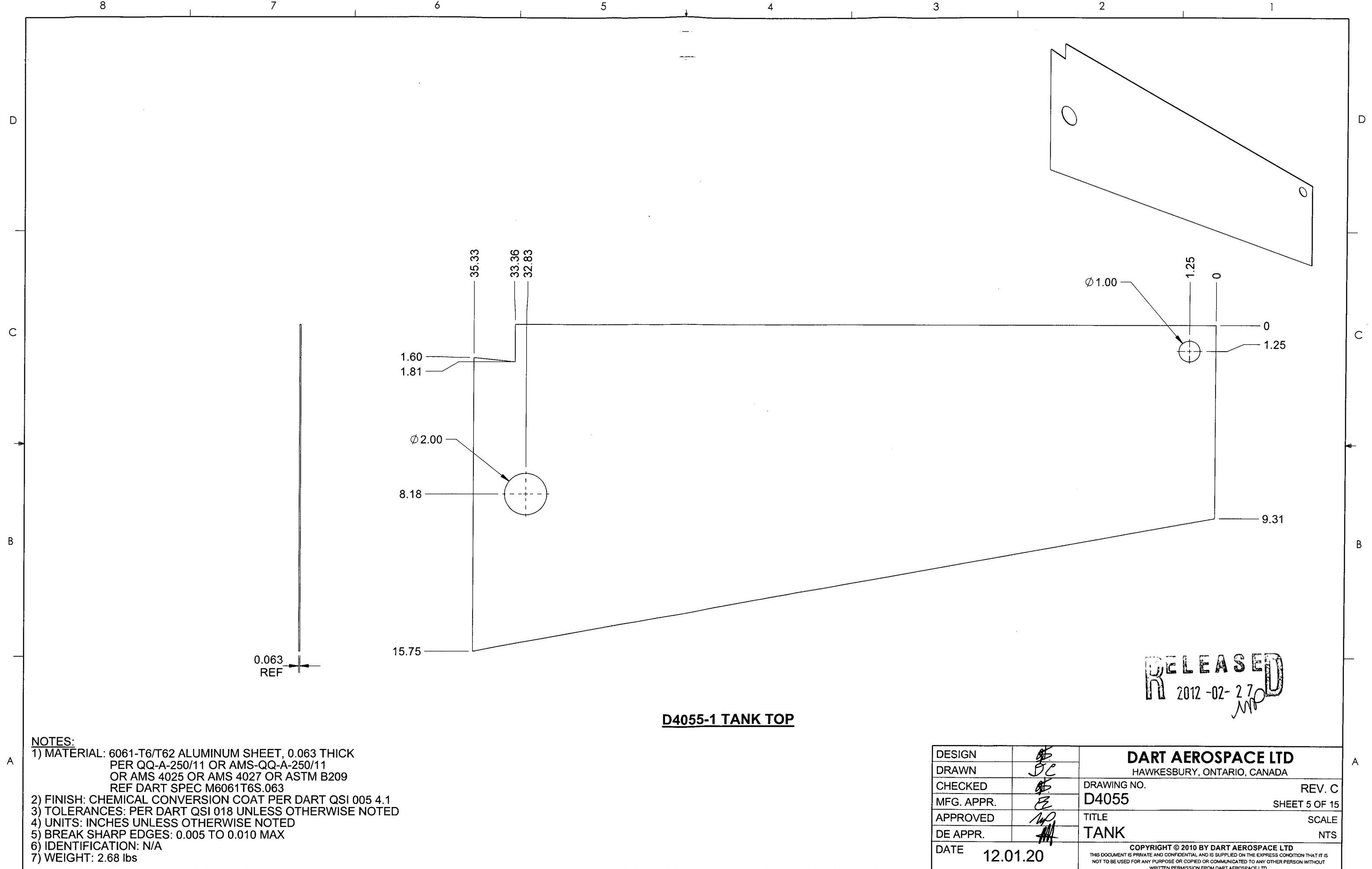
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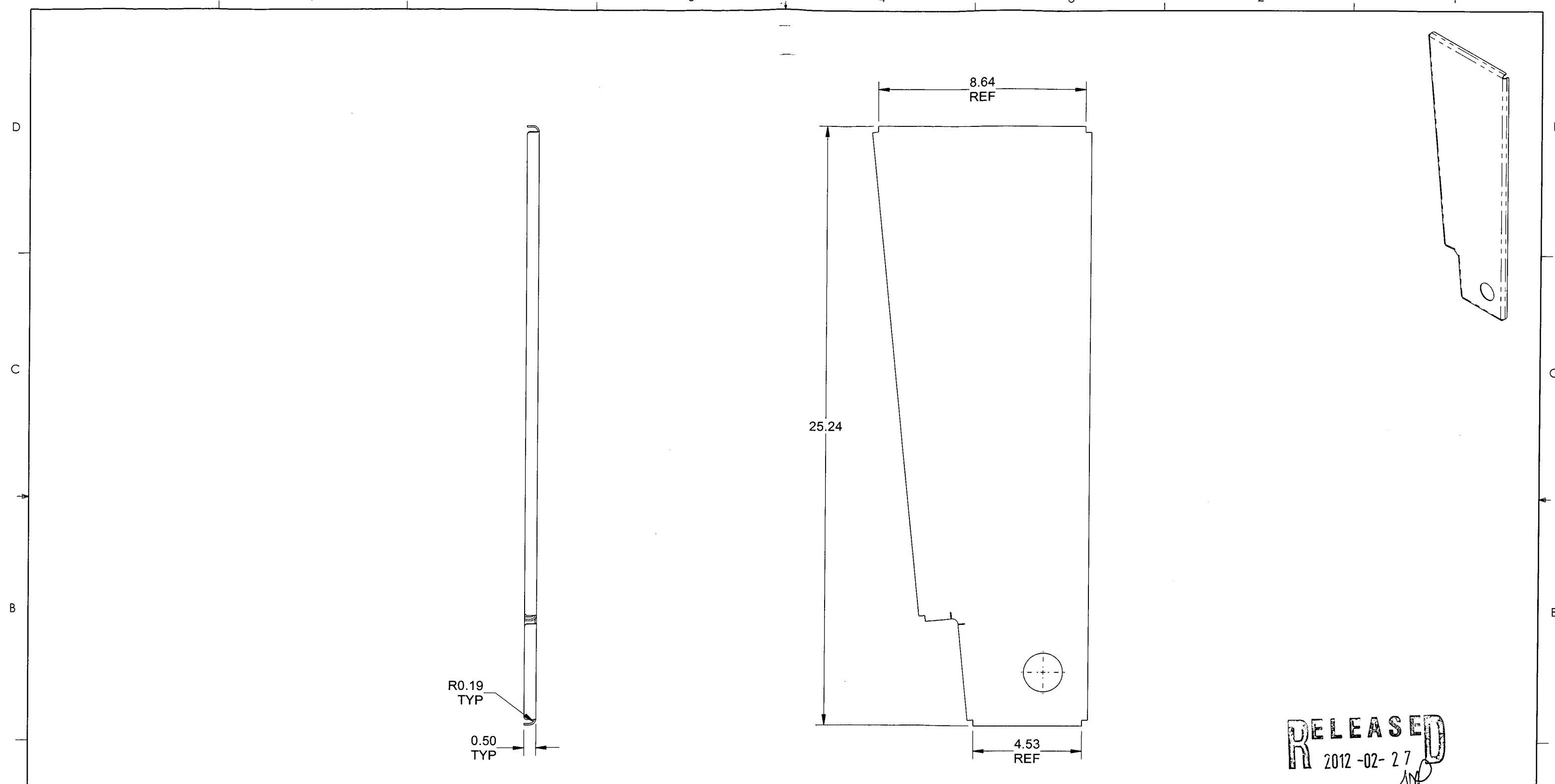
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D4055-3 TANK AFT END

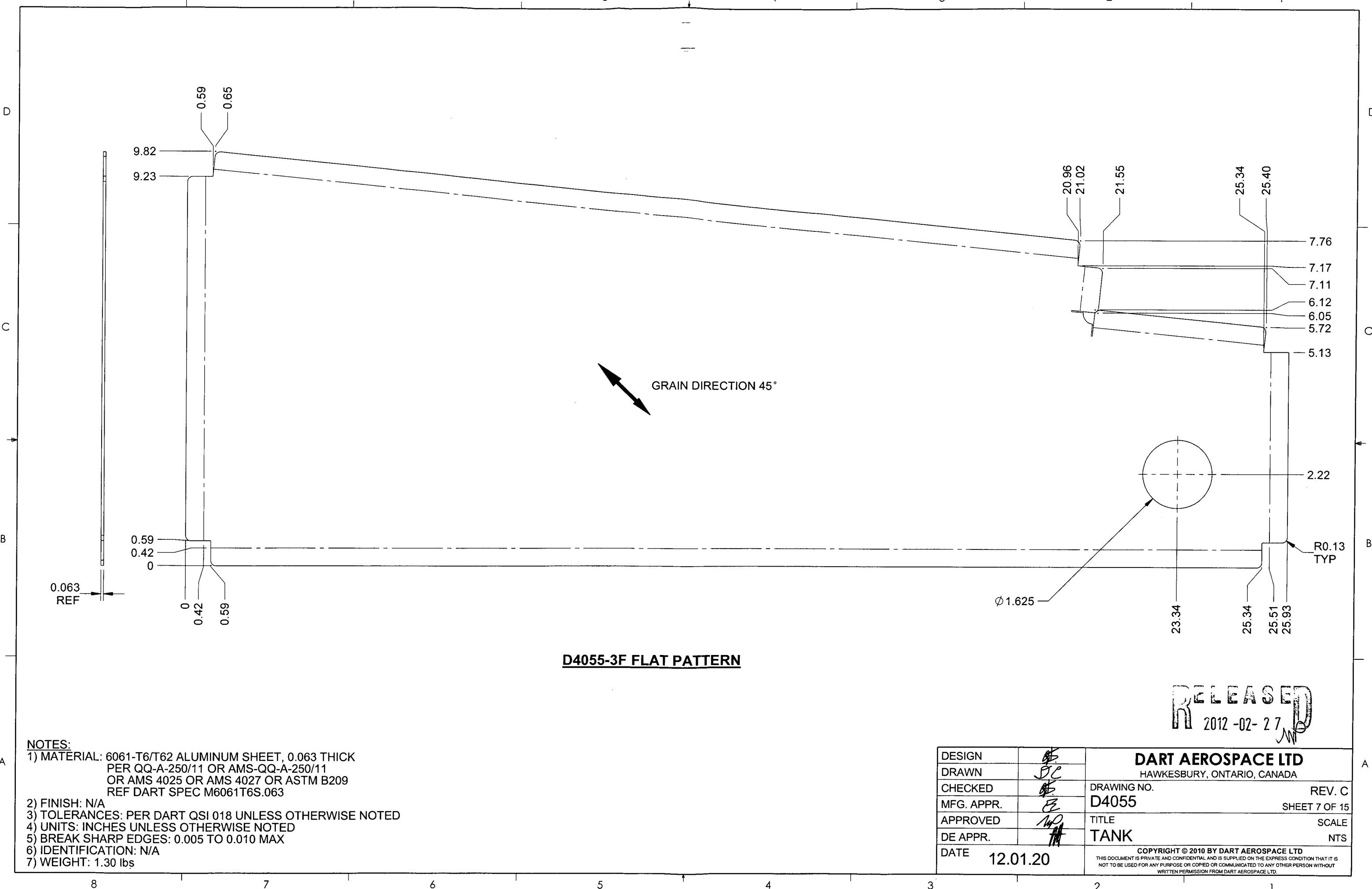
NOTES:

- 1) MATERIAL: MADE FROM D4055-3F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 1.30 lbs

DESIGN	<i>BB</i>	DART AEROSPACE LTD	
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>BB</i>	DRAWING NO.	
MFG. APPR.	<i>EZ</i>	REV. C	
APPROVED	<i>MM</i>	D4055	
DE APPR.	<i>MM</i>	SHEET 6 OF 15	
TITLE		SCALE	
TANK		NTS	
DATE	12.01.20	COPYRIGHT © 2010 BY DART AEROSPACE LTD	
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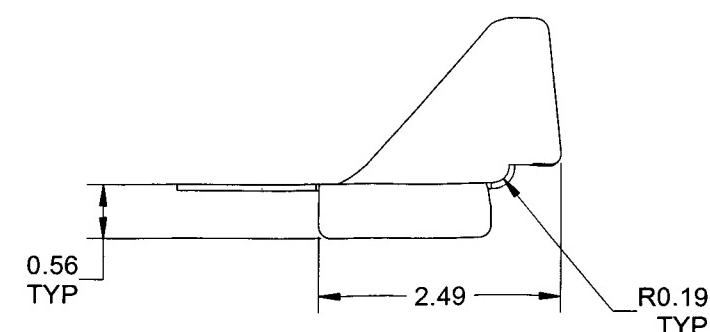
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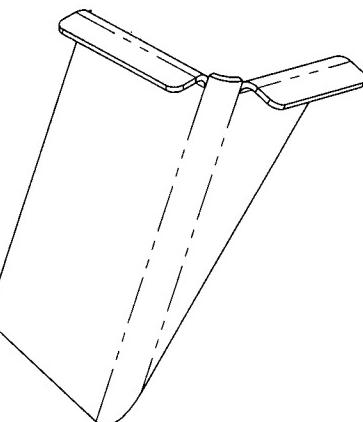
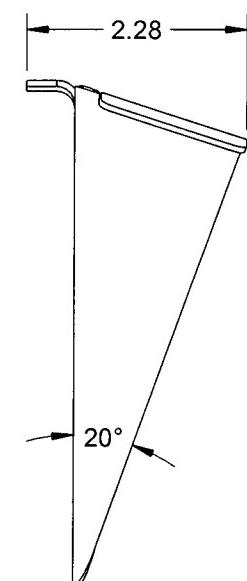
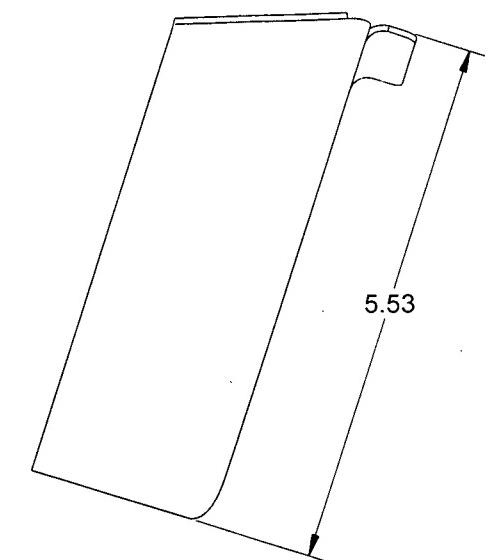


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D4055-5 UPPER CUT OUT

NOTES:

- 1) MATERIAL: MADE FROM D4055-5F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.10 lbs

DESIGN	<i>AB</i>	DART AEROSPACE LTD	
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AB</i>	DRAWING NO.	
MFG. APPR.	<i>EZ</i>	D4055	REV. C
APPROVED	<i>AB</i>	SHEET 8 OF 15	
DE APPR.	<i>AB</i>	TITLE	
		SCALE	
		NTS	
DATE	12.01.20	TANK	

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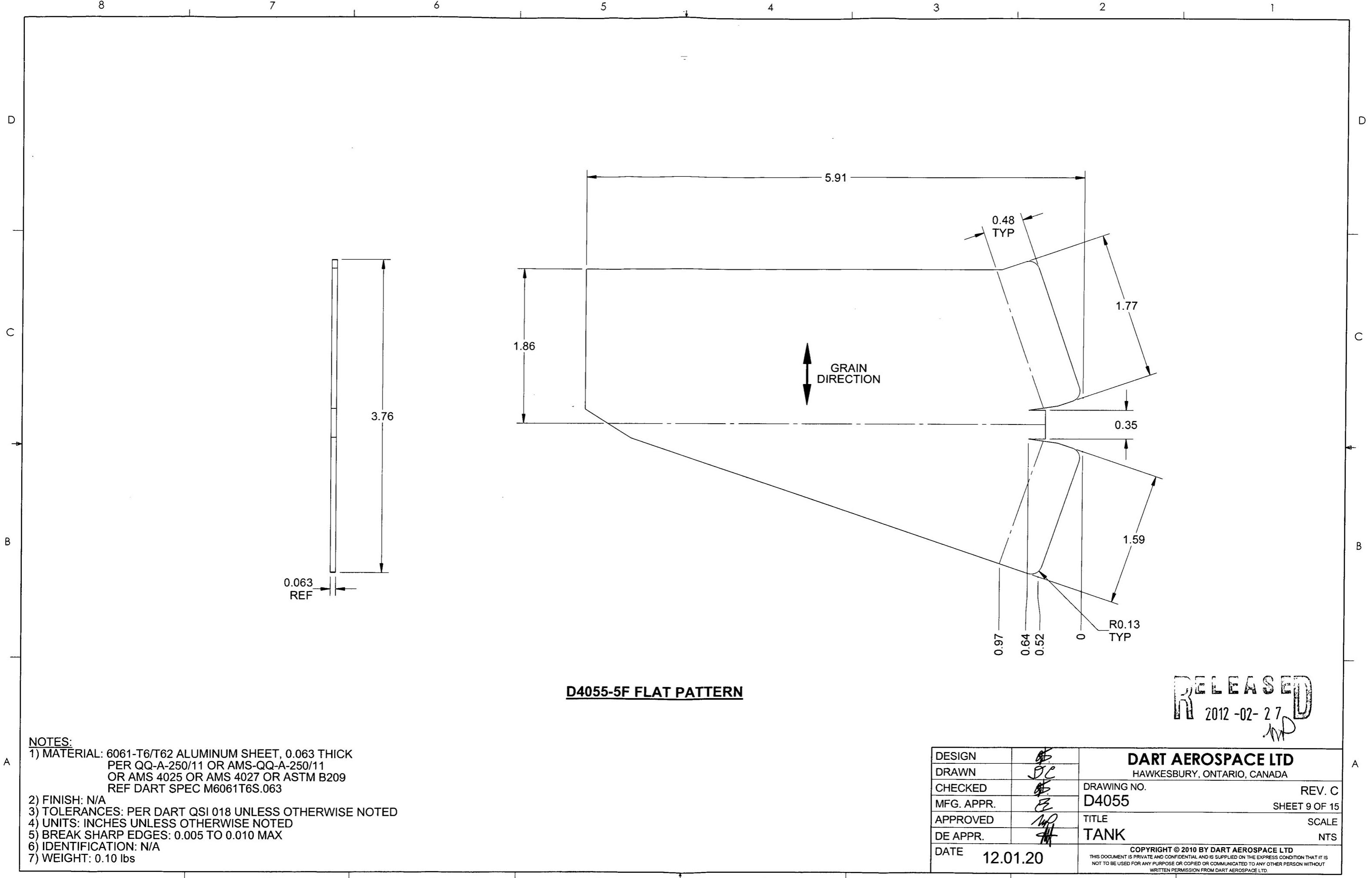
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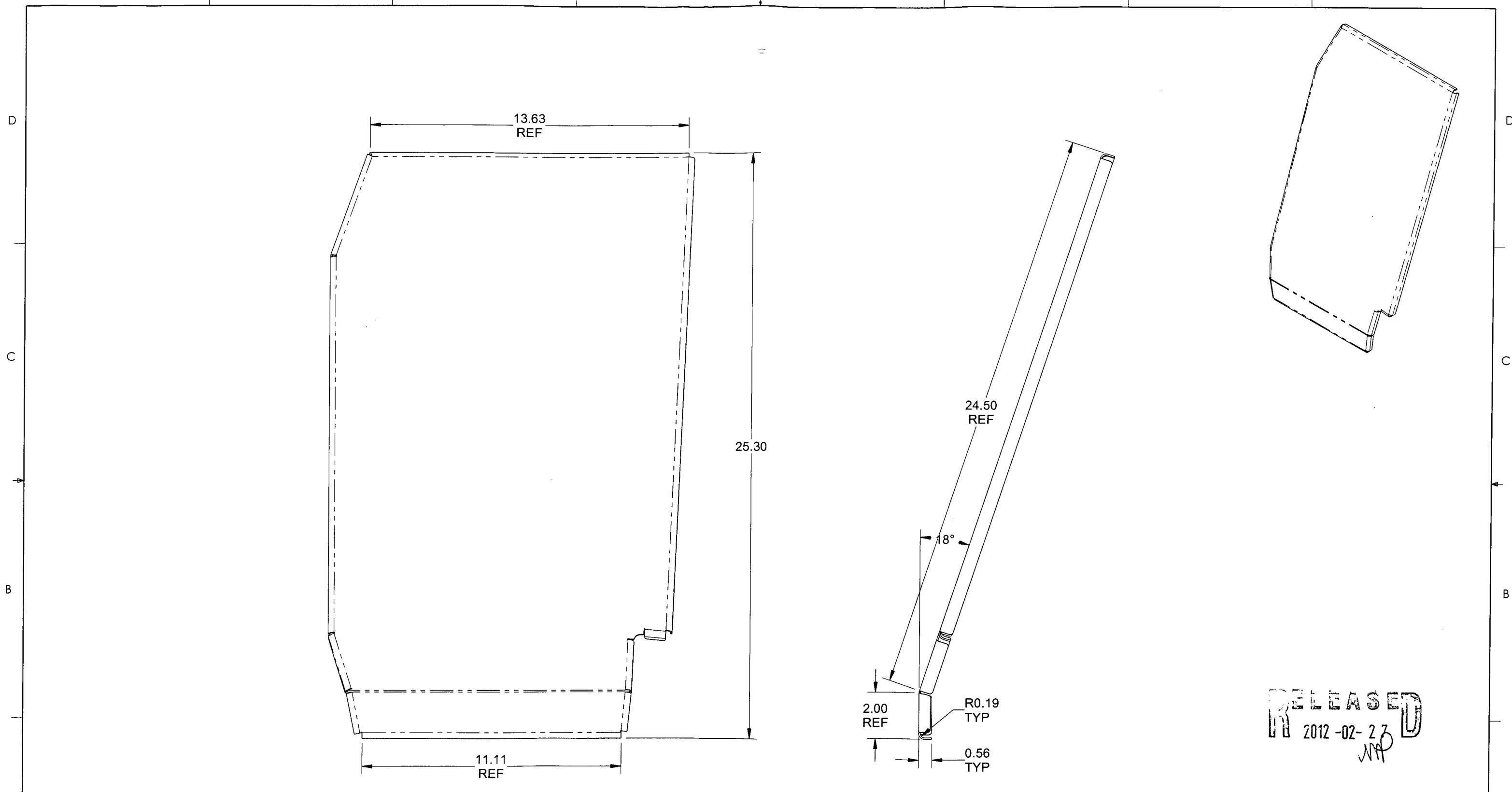
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2012-02-27
NPF

NOTES:

- 1) MATERIAL: MADE FROM D4055-7F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 2.56 lbs

DESIGN	<i>DC</i>	DART AEROSPACE LTD	
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>DC</i>	DRAWING NO.	
MFG. APPR.	<i>DC</i>	REV. C	
APPROVED	<i>DC</i>	D4055	
DE APPR.	<i>DC</i>	SHEET 10 OF 15	
TITLE		SCALE	
TANK		NTS	
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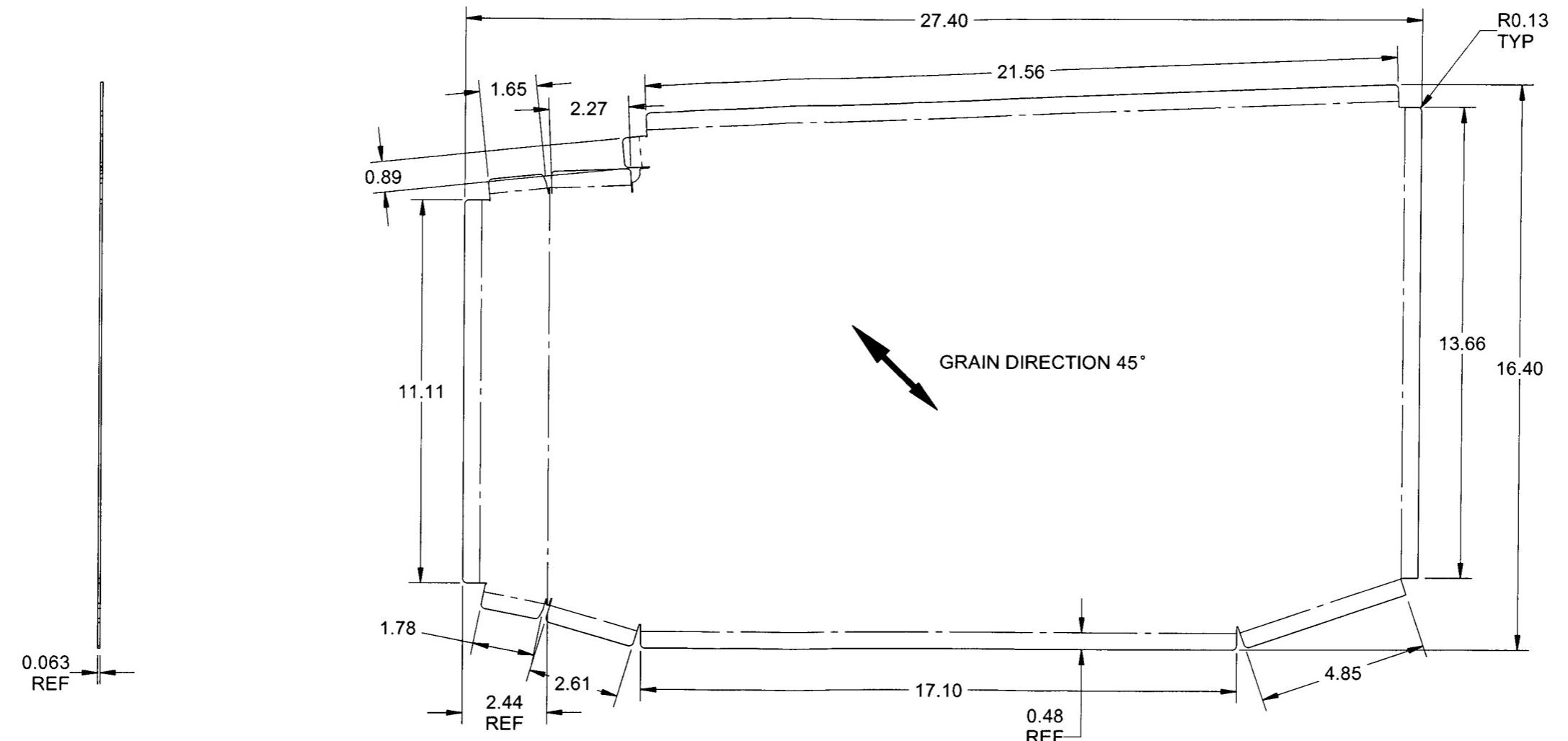
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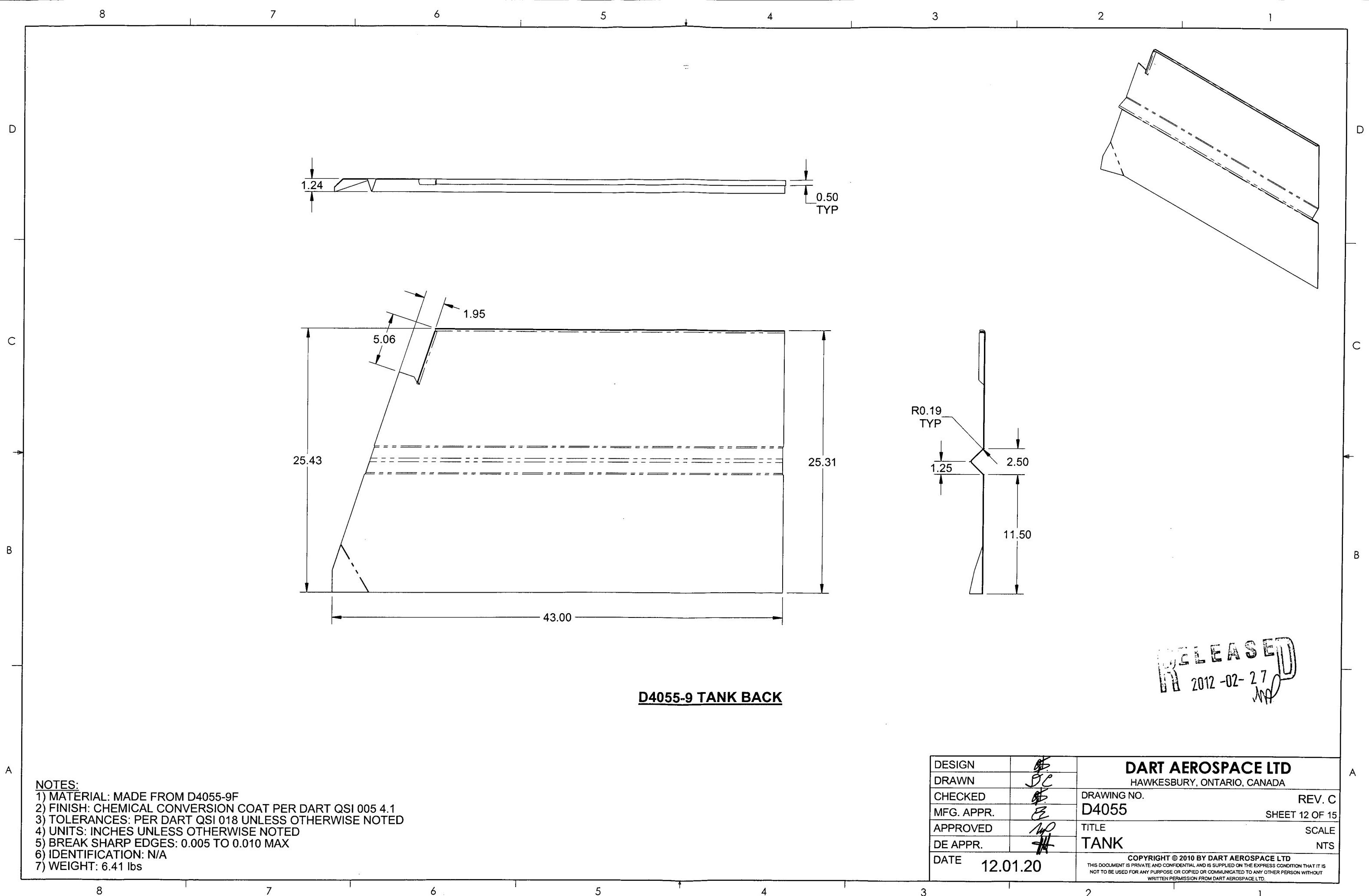
D4055-7F FLAT PATTERN

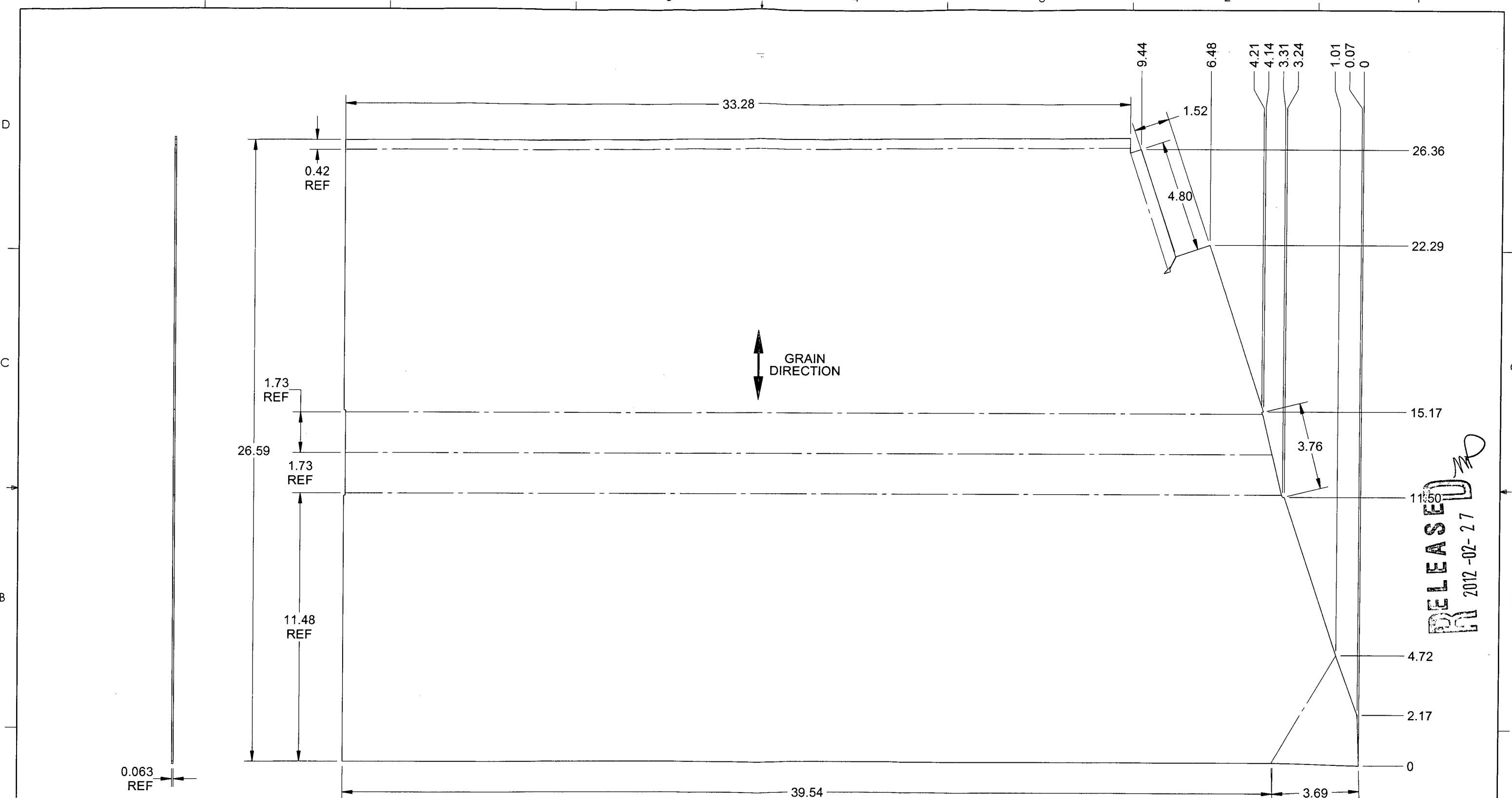
NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.063 THICK PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 REF DART SPEC M6061T6S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 2.56 lbs

DESIGN	<i>AB</i>	DART AEROSPACE LTD			
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA			
CHECKED	<i>AB</i>	DRAWING NO.			
MFG. APPR.	<i>EZ</i>	D4055			
APPROVED	<i>MP</i>	REV. C			
DE APPR.	<i>MP</i>	SHEET 11 OF 15			
DATE 12.01.20		TITLE	SCALE		
		NTS			
		TANK			
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NOTES:

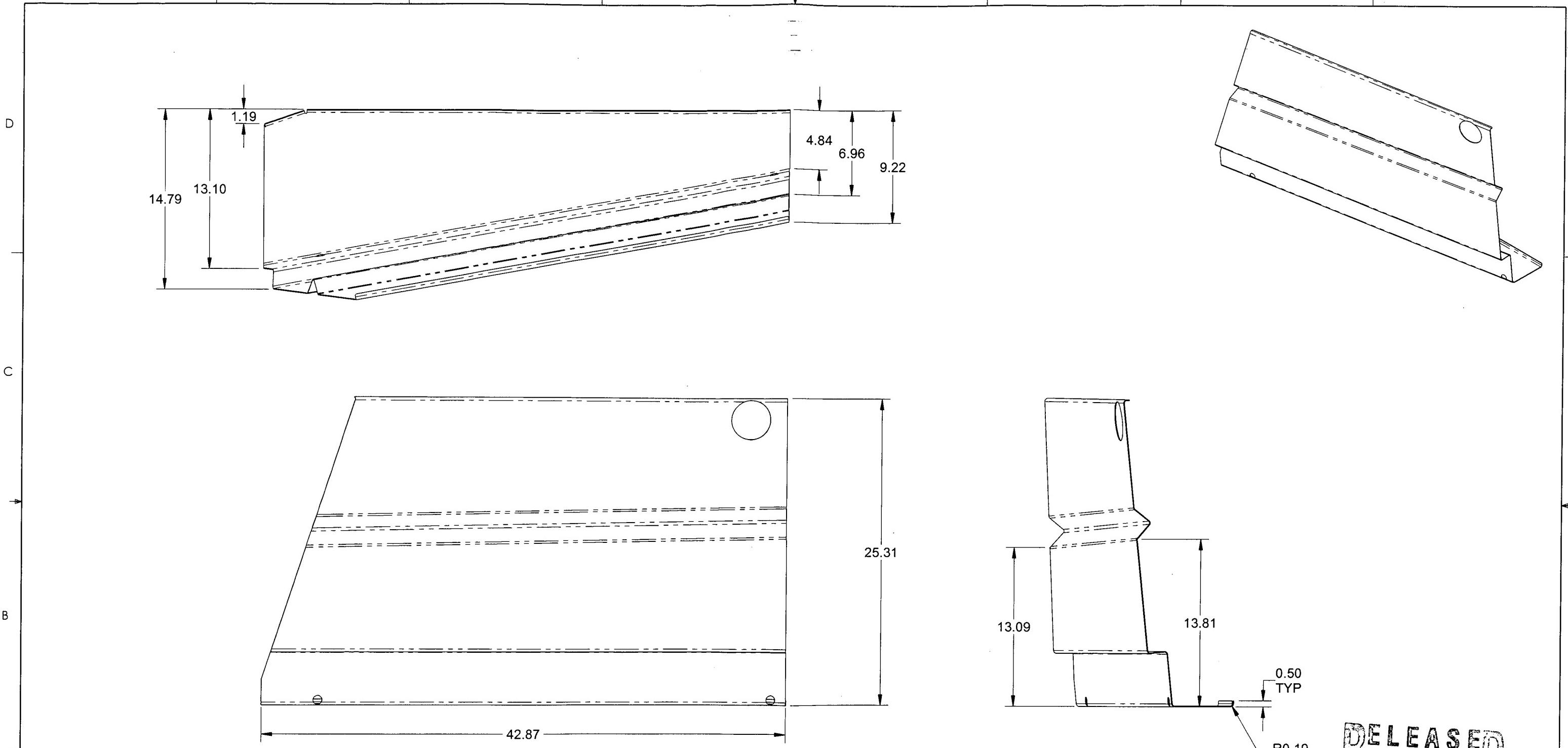
- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.063 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 6.41 lbs

D4055-9F FLAT PATTERN

DESIGN	<i>BB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	<i>DC</i>	
CHECKED	<i>BB</i>	DRAWING NO.
MFG. APPR.	<i>EZ</i>	D4055
APPROVED	<i>MP</i>	REV. C
DE APPR.	<i>CH</i>	SHEET 13 OF 15
DATE	12.01.20	TITLE
		SCALE
		NTS
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RELEASED
DR 2012-02-27

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D4055-11 TANK FRONT AND BOTTOM

NOTES:

- 1) MATERIAL: MADE FROM D4055-11F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 9.32 lbs

DESIGN	<i>BB</i>	DART AEROSPACE LTD	
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>BB</i>	DRAWING NO.	REV. C
MFG. APPR.	<i>EZ</i>	D4055	SHEET 14 OF 15
APPROVED	<i>MP</i>	TITLE	SCALE
DE APPR.	<i>MP</i>	TANK	NTS
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